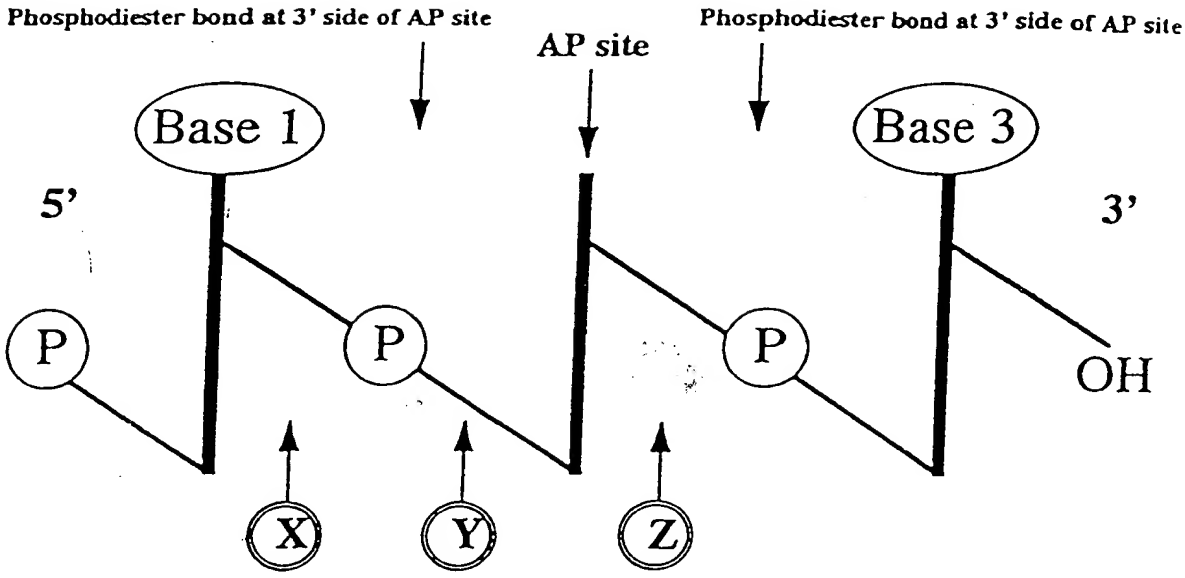
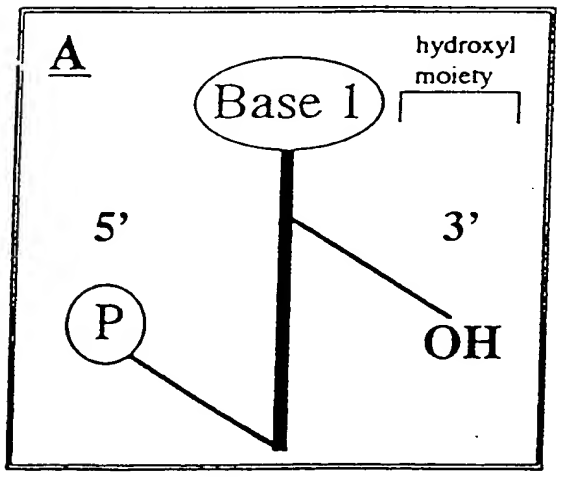
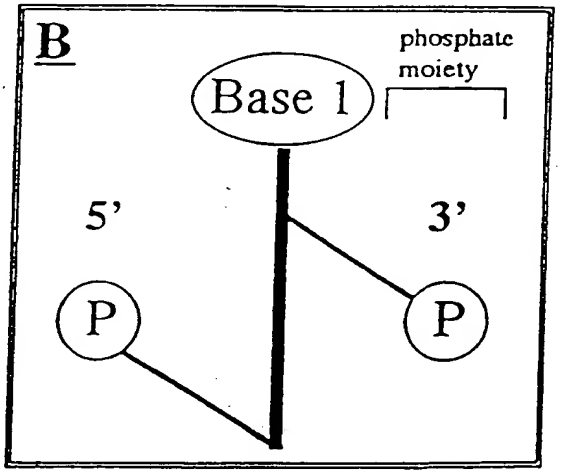






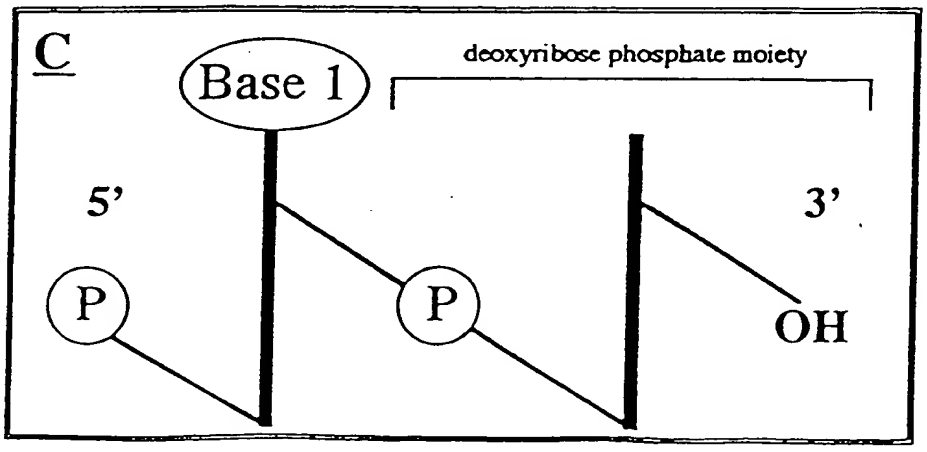


FIG 1

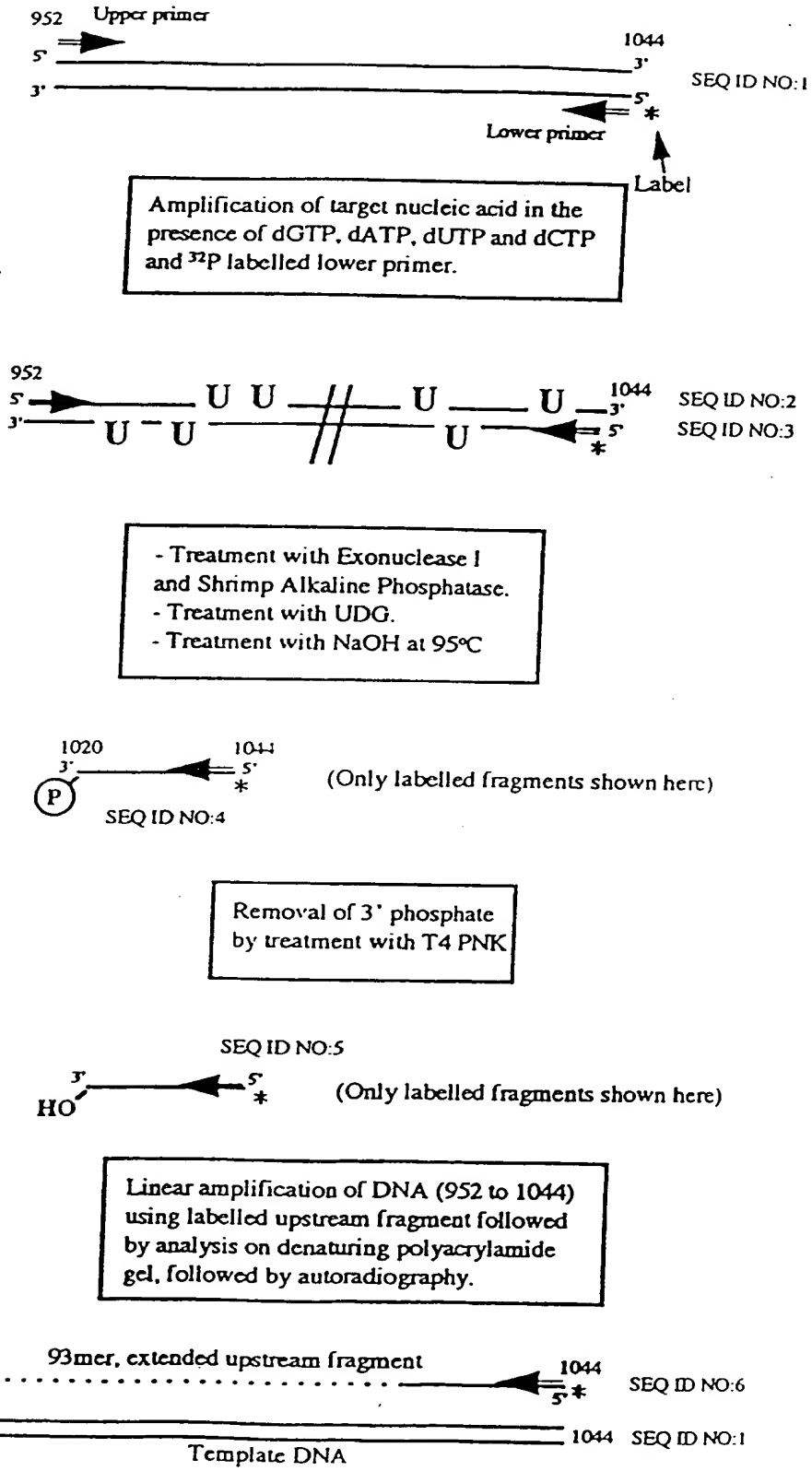
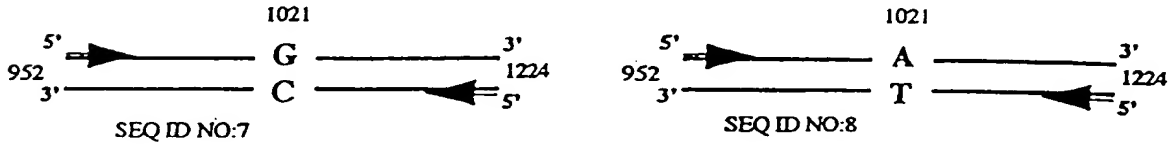


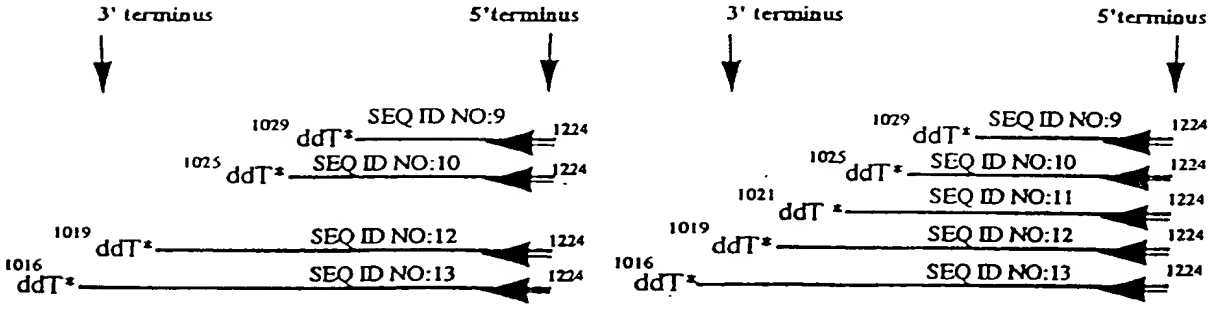
FIG 2

- Amplification of normal and mutanttarget nucleic acid in the presence of dGTP, dATP, dCTP and1/20 ratio of dUTP to dTTP.



- Treatment with Exonuclease I and Shrimp Alkaline Phosphatase.
- Treatment with UDG.
- Treatment with NaOH at 95°C
- DNA is precipitated.
- Treatment with T4 PNK

Extension of the upstream fragments generated above in the presence of ^{33}P-labelled ddTTP* and unlabelled ddGTP, ddATP and ddCTP.



Only some fragments corresponding to cleavage at U incorporation sites surrounding the mutation site are shown here.

Detection of extended labelled fragments by PAGE and autoradiography

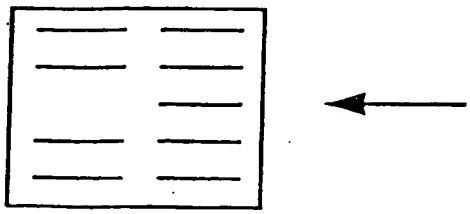
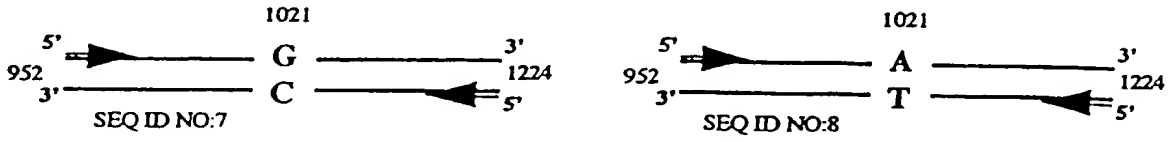


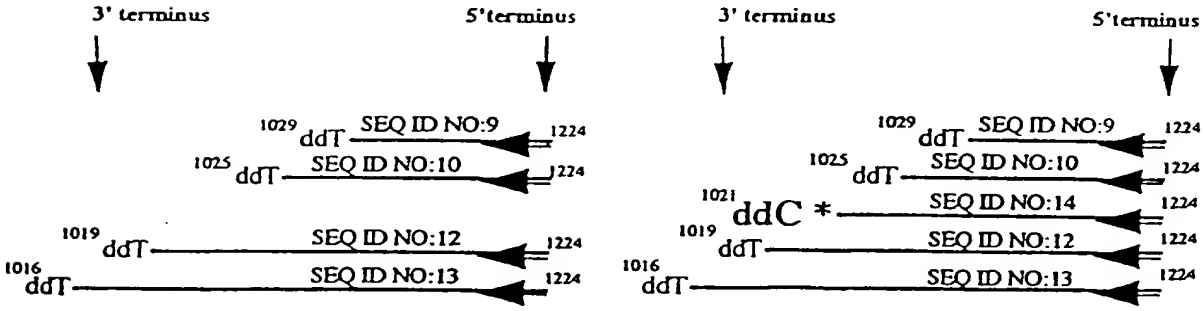
FIG 3

- Amplification of normal and mutanttarget nucleic acid in the presence of dGTP, dATP, dCTP and1/20 ratio of dUTP to dTTP.

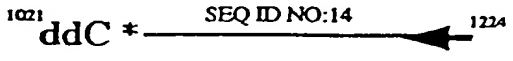


- Treatment with Exonuclease I and Shrimp Alkaline Phosphatase.
- Treatment with UDG.
- Treatment with NaOH at 95°C
- DNA is precipitated.
- Treatment with T4 PNK

Extension of the upstream fragments generated above in the presence of ^{33}P-labelled ddCTP* and unlabelled ddGTP, ddATP and ddTTP.



Only some fragments corresponding to cleavage at U incorporation sites surrounding the mutation site are shown here.



Detection of extended labelled fragments by PAGE and autoradiography

FIG 4

6390 Upper primer — Mutation site A — SEQ ID NO:15 — 6443

5' AACTTGTGGTAGTTGGAGCTGGTGGCGTAGGCAAGAGTGCCTTGACGATACAGC 3'
3' TTGAACACCATCAACCTCGACCACCGCATCCGTTCTCACGGAACTGCTATGTCG 5'

T — Lower primer

↓ Amplification of target nucleic acid in the presence of dGTP, dATP, dUTP and dCTP.

SEQ ID NO:16 — Amplified normal allele

5' AACTTGTGGTAGTTGGAGCTGGUGGCGUAGGCAAGAGUGCCUUGACGAUACAGC 3'
3' UUGAACACCAUCAACCUCGACCACCGCATCCGTTCTCACGGAACTGCTATGTCG 5'

SEQ ID NO:17

SEQ ID NO:18 — Amplified mutant allele

5' AACTTGTGGTAGTTGGAGCTGAUGGCGUAGGCAAGAGUGCCUUGACGAUACAGC 3'
3' UUGAACACCAUCAACCUCGACUACCGCATCCGTTCTCACGGAACTGCTATGTCG 5'

SEQ ID NO:19

↓
- Treatment with Exonuclease I and Shrimp Alkaline Phosphatase.
- Treatment with UDG.
- Treatment with Endo IV.

SEQ ID NO:20 — Normal upstream fragment

3' CGACCACCGCATCCGTTCTCACGGAACTGCTATGTCG 5'

SEQ ID NO:21 — Mutant upstream fragment

3' ACCGCATCCGTTCTCACGGAACTGCTATGTCG 5'

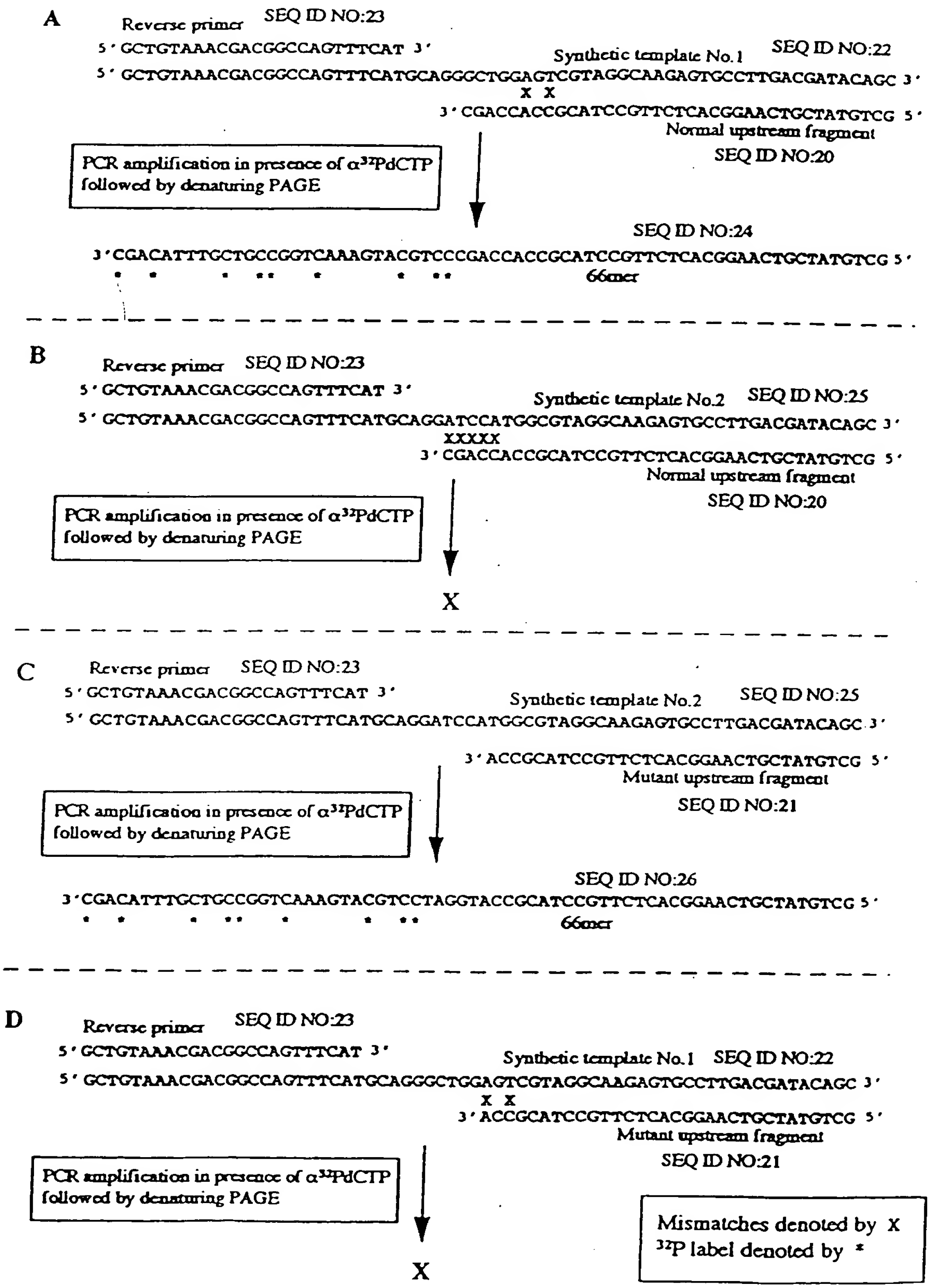


FIG 6

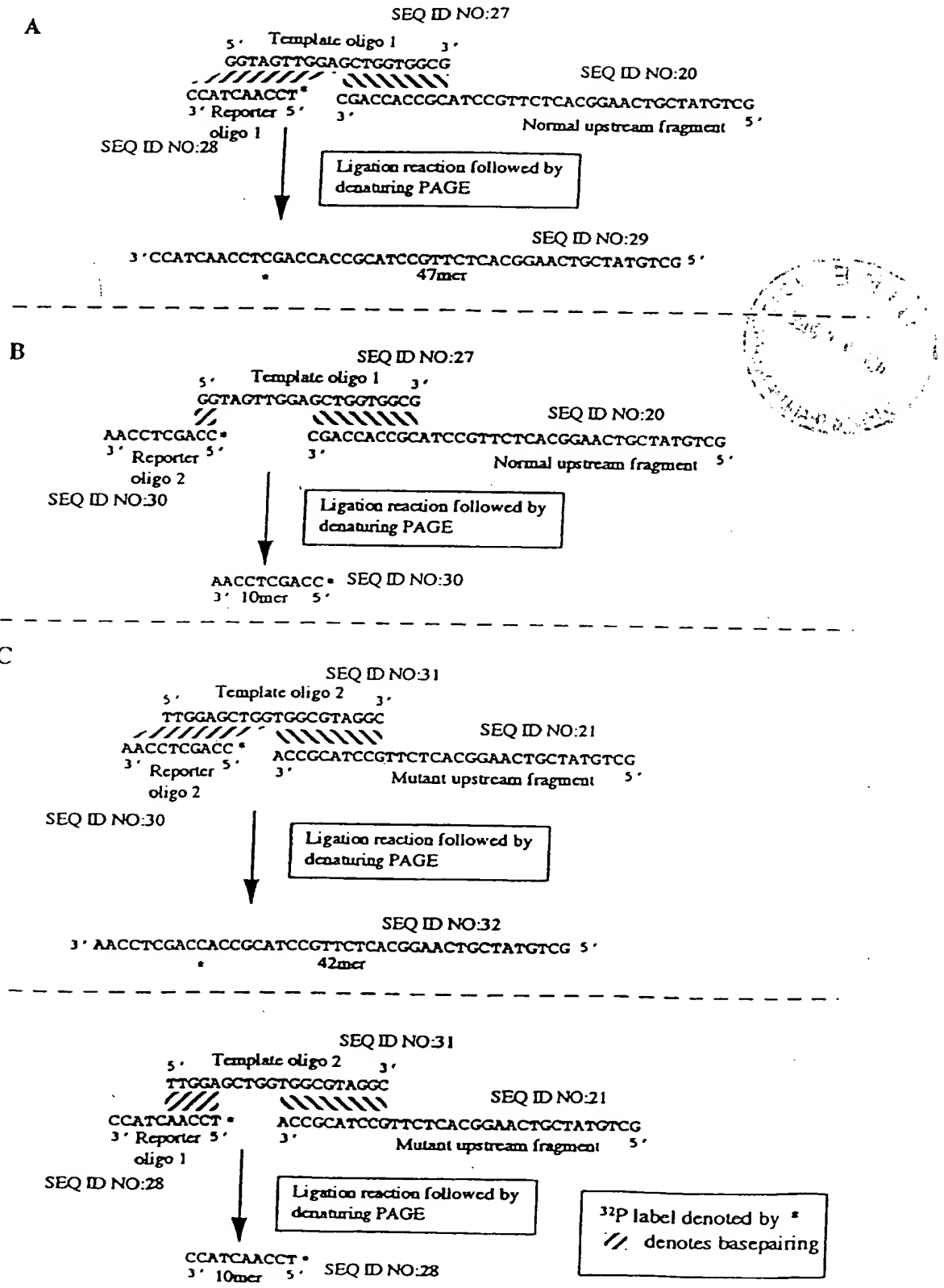


FIG 7